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<110> Liew, Choong-Chin

<120> Method for the Detection of Rheumatoid Arthritis Related Gene Transcripts in Blood

<130> 4231/2055H

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<141> 2004-3-30

<150> US 10/802,875
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caaataaaca aaaacttcca atctccattt aaaat                                 155


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cagtg                                                                  125


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gggtttcccg gggaacccaa ccctttaagg ggtnggggggg aatttccccc caaaaaaagg   120

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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat   180

atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360

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ctttaaggnt tgggggaatt cccccaaaaa aggaaaaaat tttcccgggg gcccacccgg   120

aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg   235

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caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccccg ggaaaggccc   180

aagggggggaa aatttttccg ggggtgggtn ggggggaacca atttaagggg ggggccccccg   240

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ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg       180

gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa       240

tg                                                                      242


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<213>   Human

<400>   20
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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt       120

gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct       180

c                                                                       181


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tnccccnccn nttnanacna aanntngcac tcttggntgc                          100


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tttgnggctg cngcccctgt gcctggtgcc acaacaaatg   100

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cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc      120

aagggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag      180
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gccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg   227

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg     180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct     240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna     300

ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct     360

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga     420

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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta     180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc     240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag     300

tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa     360
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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg    420

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttcntncccc    180

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ngatnnagac cncnnatcac ctaatacanc catnactcan atgactnttt gtgcgccttt    120

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tgtcctgaag gacaagccgn ttcgtttgaa nctgtgaaat ac   102

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atttgtggtc ggaagctttg caaagagggg acctgggtct gagtgacatg cgtggccact   120

ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg   180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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gagatgagat aaaatgagat gaaatgaagt gaaatgaaat gaantcctga aattgacntg     180

agatgaactg agataaaatg ntgagatgaa ntgatgagaa gaaatgagat gaaatgagat     240

gagatgatga gatgaaaaat gctgagatga aacntgatga gatgaaatga tgagatgaat     300

tgaantgaaa tgaaataatg aaataatgac ctgagatgan atgaantgat gaactgatga     360

actaatgaaa tgaaaatgaa atgganntga tgagatgaga agaantgctg agatgagata     420

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ntntncanca gctgatgcag gncncctatg atgcgattan ggactacgac tatnnctcan     180

ngtctnaaca gncgcgangg ctgantacta aaagnacaca aanntgtgca ccnncatnac     240

tcncgttgac tgnacantgt agacctgnaa tacctggctn aaaggggtct nactgncatn     300

agagntgnag ntgcccctnc antagngnga gctnnaanng gcctgtnttt gntttacntc     360

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cttgtttaga cttgcatctg cacatagaag tagggatttc atgctgttat cagcctaatt     180

ttagcctata gaatttcaag ttngctagag gtttngctct ccatggtata agtttagcaa     240

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cctcnnngat ngtttaaaat tgttttcctc ncatataata aaaatacctn angcatanat     480

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc     180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca     240
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gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540

tgntagatga nnngntgctc ncccttgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag                           100


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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa     180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca     240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg     300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa     360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt     420

ataagtaacc tgaaaacatt ctcctctgca taagccctgc gttggattat atcctgcact     480

gacaattaac tgccccaata tctacaatcc aaccc                               515


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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga   120

agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt   176

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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa   120

ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

acattgttat tgccatt   317

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<213> Human

<400> 57

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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc     120

aggagaattg cgtcatttaa agcctgttga cgctttтctc ccgcagacga atggaaagat     180

taattgggag tgggggctga aacaattcg                                       209
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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat     120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg     180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac     240

agagcgagac tccatctcta at                                              262
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cccgggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa     180

aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggccttttga      240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt     300

aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc     360

ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt     420

tgggggcggc                                                           430
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atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg     120

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca     180
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tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat   300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga   350

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<213>   Human

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg   300

agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa   360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata   480

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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttgt   180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc   360

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac   600

cagaccaaac t   611

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240

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tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

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tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa   120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

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tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

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atagctagta aactcccccct gt   142

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<213>   Human

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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc     180

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caaagctcca tttccttgaa agcagaagtg taatattact tcttag                    286


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ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat      179


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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt     180

agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg     240

gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata     300

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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg     180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat     240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat     300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga     360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca     420

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g                                                                     481


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aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga      180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa      240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa      300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga      360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga      420

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<223>   n is a, c, g, or t

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<400>   73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat      120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa      180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga      240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga      300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga      360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat      420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg      480

atgagatgaa atgatgaaat                                                  500
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<213>   Human


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<223> n is a, c, g, or t

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

<210> 75
<211> 155
<212> DNA
<213> Human

<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc acttttttct   240

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<213> Human

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<400>  78
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nntaantaaa	aagggtgaag	aannttactt	cncttggtcc	taaaaaacnt	tttcntcagt	120
tattaccaaa	atatttggac	cattantaaa	gantagggcc	aacccnaatt	tttcttgaaa	180
tttccgttaa	atagccgtta	aatgttttta	cccatttcat	attggatacc	ttaaattata	240
ataatggatt	ttattgttaa	attgtgtgtg	tgtggtgtgt	atgccctgtc	ttttctcctc	300
taccattatt	gtcactttat	gtttggaacc	ccctttaccc	ttccttaaag	gaaaaaaagg	360
gcccgggggtt	ttt					373

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<211>  128
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<213>  Human


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ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca     120

tgtttgtt                                                               128


<210>  80
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<212>  DNA
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ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg     120

ggaaaanaaa tccttttttaa anggaantcc aagggaagga ncctgnncaa nacttcccn     180

ccaataaaaa aaaccntttt ggaaangggg aaa                                  213


<210>  81
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<223>  n is a, c, g, or t

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<400>  81
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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat    120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg    180
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aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat    240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa    300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa    360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa    420

atgaaatgaa atgagattaa atg                                            443
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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata    120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag    180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata    240

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat    300
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aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg      360

catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg      420

taggaaagca tttctttttt tt                                              442
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<400>  83
gtctaacnta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga       60

aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga      120

aggaaggaag gaagg                                                      135


<210>  84
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<213>  Human


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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag      120

aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag      180

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc      240

aaccccagct agacagaact ttgtagattt tgggggggtttt aaaaggcctc aagcaaattc      300

taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact                    346


<210>  85
<211>  100
<212>  DNA
<213>  Human

<400>  85
acaaaaagcc cctttaaact tgggcccgct cgaggtcgtt tcgactgggc cgagacttcc       60
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gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

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<212>   DNA
<213>   Human

<400>   86
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

atgtaacagt gtggggtttc a   201

<210>   87
<211>   531
<212>   DNA
<213>   Human

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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360

ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

<210>   88
<211>   530
<212>   DNA
<213>   Human

<400>   88
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cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530

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<211> 332
<212> DNA
<213> Human

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ttccaccggc ctggtttttgg ttttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggntt ttttttttta   180

aaaaaaaagg ttaaanccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240

cttaacccc gggttttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300

ggaccggttt ccattttaat gggtattggg aa   332

<210>   90
<211>   185
<212>   DNA
<213>   Human

<400>   90
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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

ctcct   185

<210>   91
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ctaggggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120

tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

ttgta   365

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<213>    Human


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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg           113


<210>    93
<211>    210
<212>    DNA
<213>    Human

<400>    93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt     120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa     180

cttcatagaa ccccatctct acaccaaaaa                                      210


<210>    94
<211>    506
<212>    DNA
<213>    Human


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cccgggangt ttaagttagg gggcctgccc cttttaagcnt agtcccaccn tgaaanacac   60

tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc   120

ctcaggggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

```
cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc    240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta    300

tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac    360

aggtttagaa atttatgttc ggcttttttaa agtttta                            397
```

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<210>  101
<211>  132
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<222>  (121)..(121)
<223>  n is a, c, g, or t

<400>  101
gttacctaat gttttactct cattttcttt ttctttattt ttcatttgta aaataggaac     60

attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc    120

ngaggaagac cc                                                        132


<210>  102
<211>  246
<212>  DNA
<213>  Human

<400>  102
gggggctttta gttataactg ggctaagcat aattgcgcta ccaattccat attatctcat     60

ggcacttaat tttataattg atatatataa taaaaaattc aatgcagata ttgatataat    120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt    180

aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga    240

aaacag                                                               246


<210>  103
<211>  18
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  forward primer of exon 1 of insulin gene used for quantitative
       RT-PCR analysis


<220>
<221>  primer_bind
<222>  (1)..(18)

<400>  103
gccctctggg gacctgac                                                   18
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<210>   104
<211>   18
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   reverse primer of exons 1 and 2 of insulin gene used for
        quantitative RT-PCR analysis


<220>
<221>   primer_bind
<222>   (1)..(18)

<400>   104
cccacctgca ggtcctct                                                   18


<210>   105
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   forward primer of ßMyHC gene used for quantitative RT-PCR
        analysis


<220>
<221>   primer_bind
<222>   (1)..(24)

<400>   105
gctggaacgt agagactccc tgct                                            24


<210>   106
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   reverse primer of ßMyHC gene used for quantitative RT-PCR
        analysis


<220>
<221>   primer_bind
<222>   (1)..(24)

<400>   106
ggatccttcc agatcatcca cttg                                            24


<210>   107
<211>   20
<212>   DNA
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<220>
<223>   forward primer of ANF used for quantitative RT-PCR analysis
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<220>
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<400> 107
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<210> 108
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<220>
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<220>
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<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> forward primer of APP used for quantitative RT-PCR analysis

<220>
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<222> (1)..(20)

<400> 109
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<210> 110
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<212> DNA
<213> Artificial Sequence

<220>
<223> reverse primer of APP used for quantitative RT-PCR analysis

<220>
<221> primer_bind
<222> (1)..(19)

<400> 110
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<210> 111
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<212> DNA
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<220>
<223>   forward primer of ZFP used for quantitative RT-PCR analysis

<220>
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<222>   (1)..(21)

<400>   111
cacargagrc arggtcaacg a   21

<210>   112
<211>   22
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   reverse primer of ZFP used for quantitative RT-PCR analysis

<220>
<221>   primer_bind
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<400>   112
ggattaaaat gaagcaccca ga   22